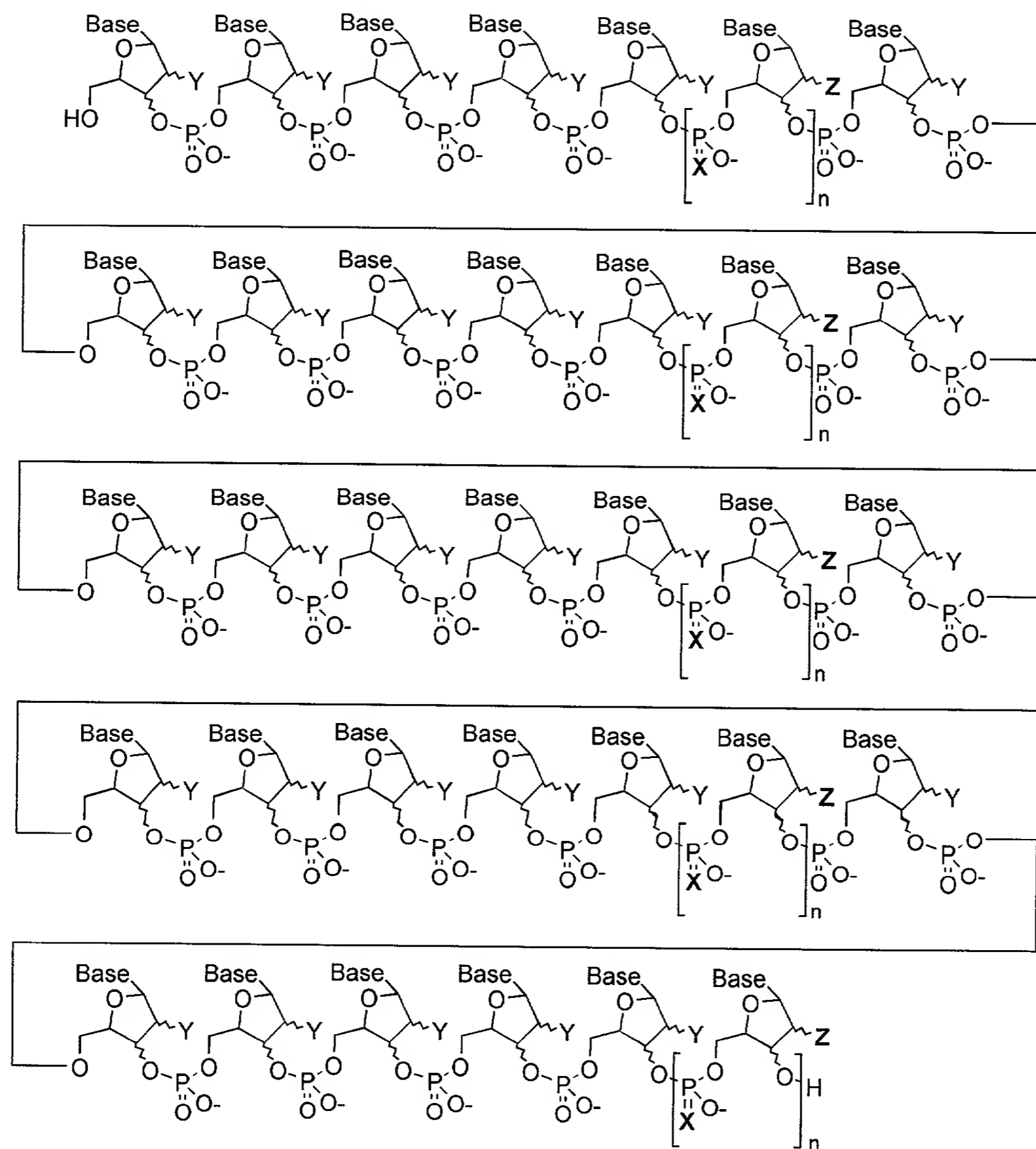
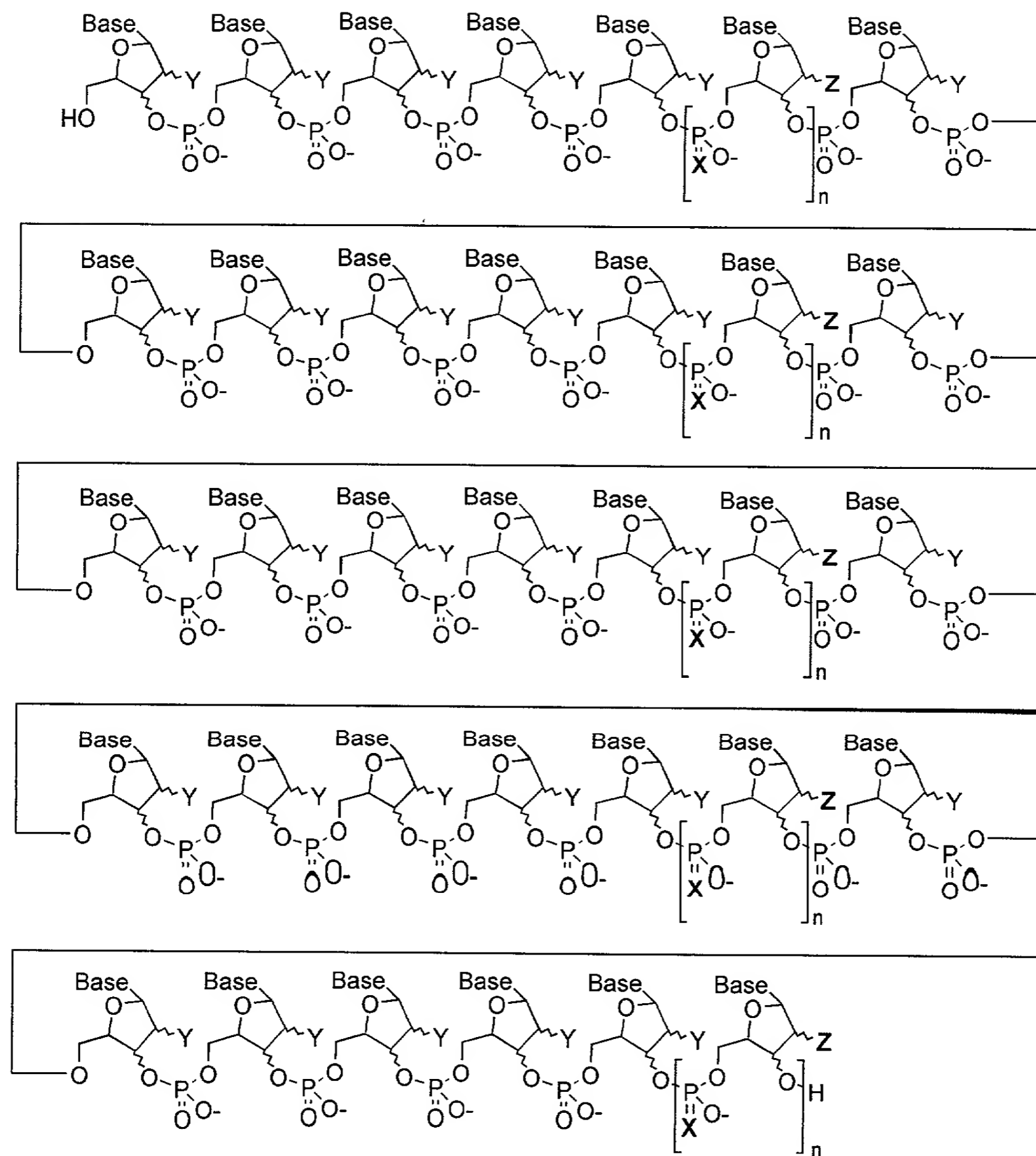


FIGURE 1



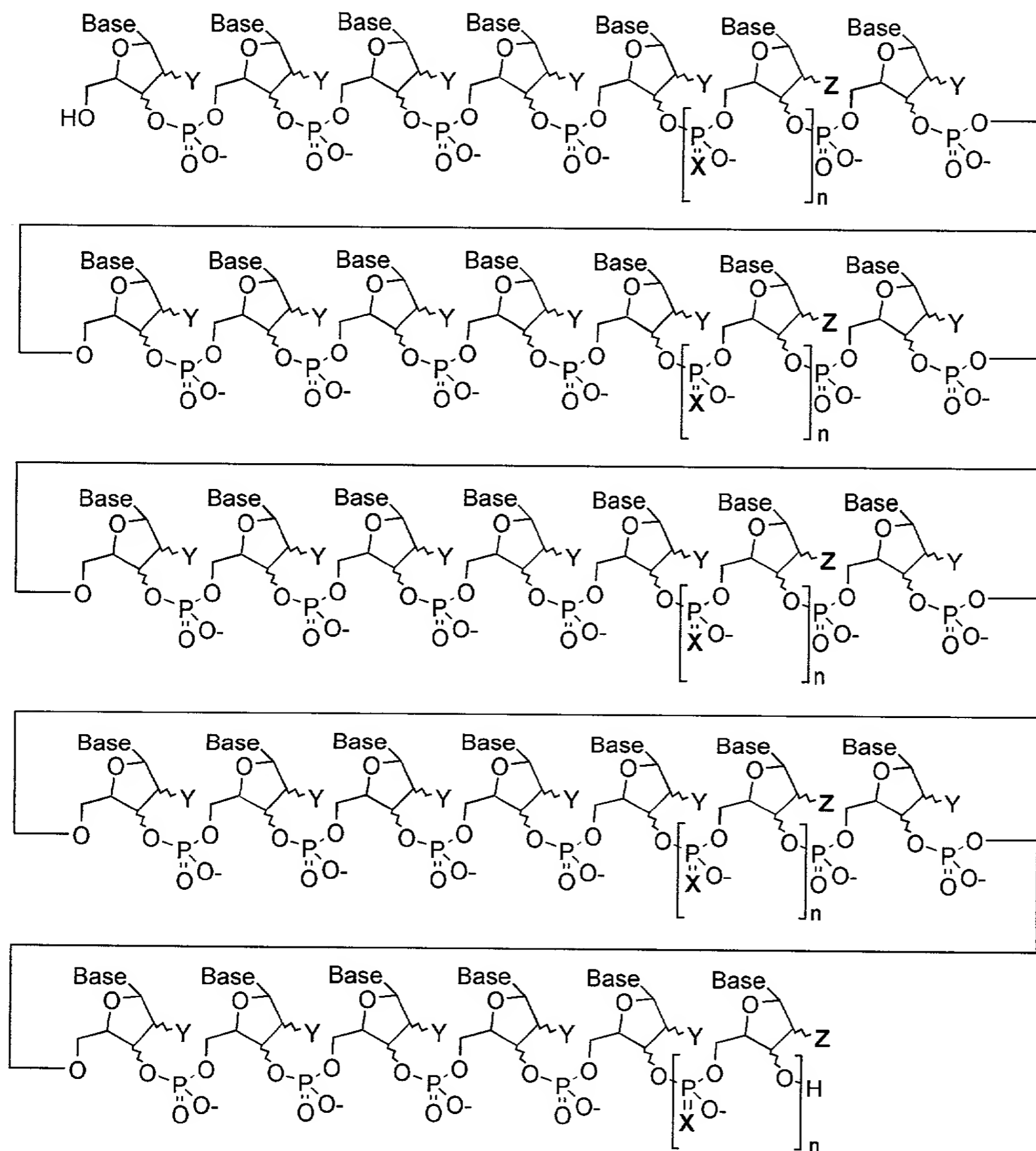
araCpO-2'OMeCpS 1 X = S Y = β -OH Z = α -OMe Base = Cytosine n = 1,2,3,4

FIGURE 2



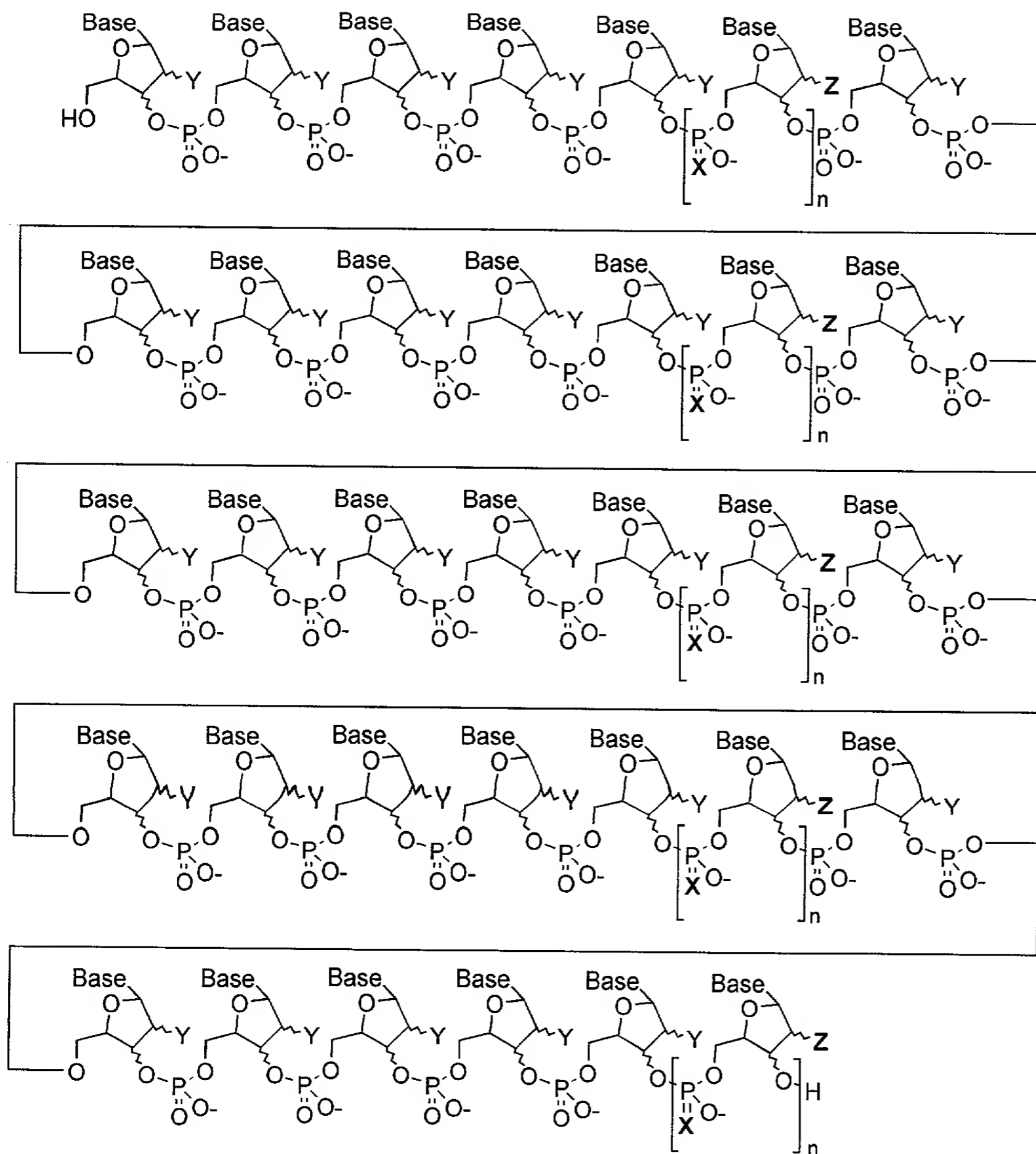
araCpO-2'OMeCpO 2 X = O Y = β-OH Z = α-OMe Base = Cytosine n = 1,2,3,4

FIGURE 3



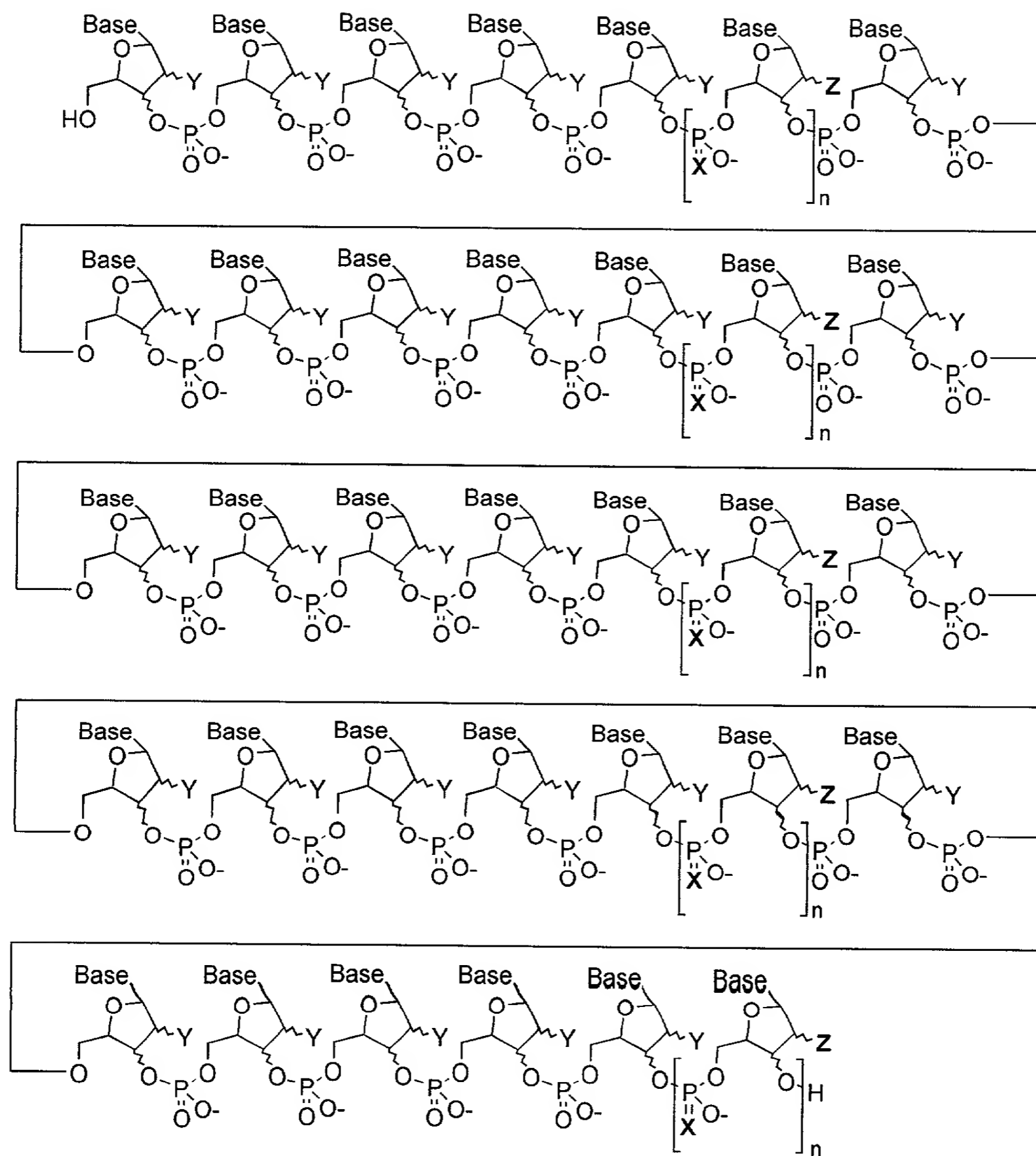
araCpO-2'OmearaCpO 3 X = O Y = β -OH Z = β -OMe Base = Cytosine n = 1,2,3,4

FIGURE 4



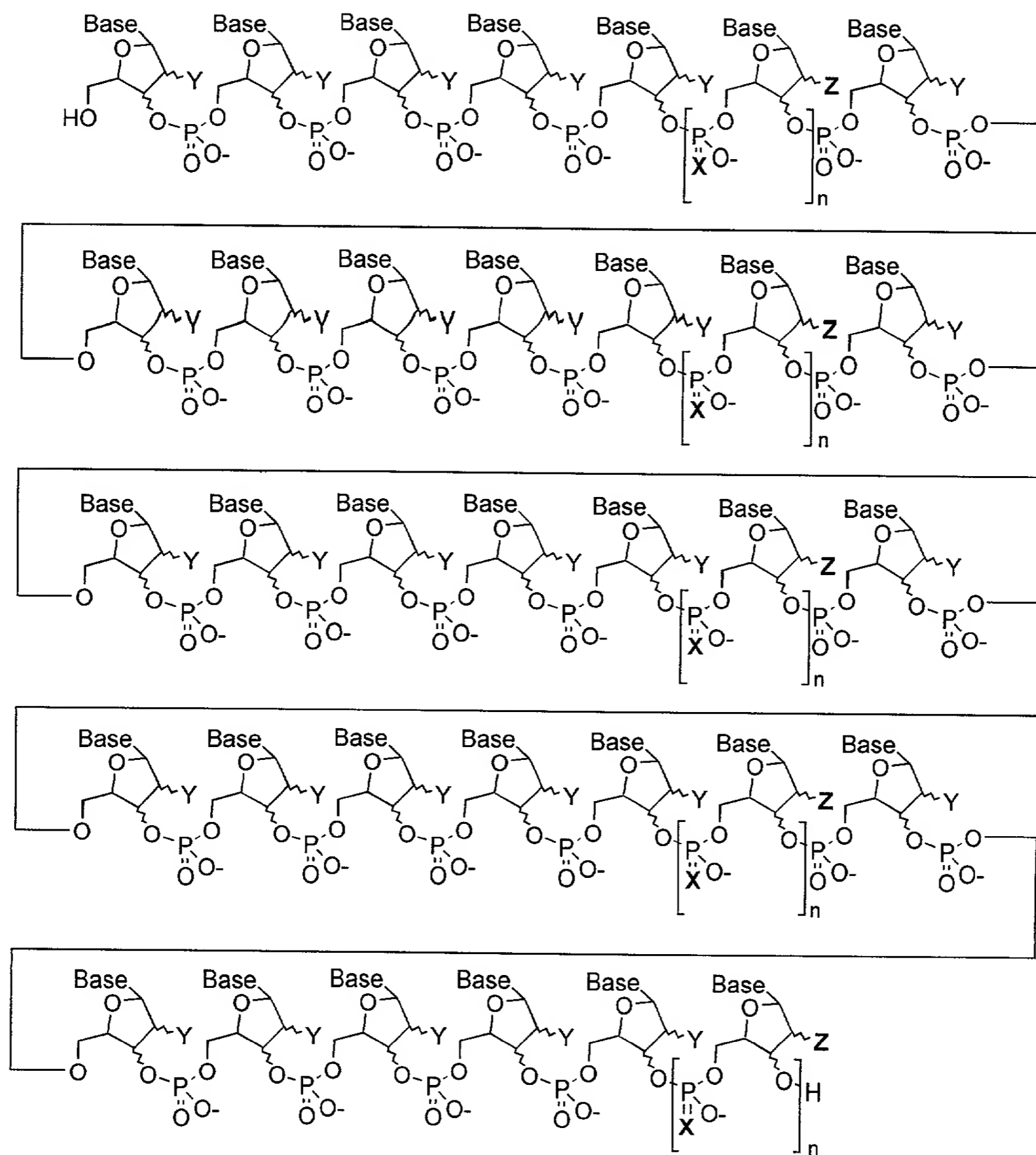
2ClApO-2ClApS 4 X = S Y = H Z = H Base = 2-Cl-Adenine n = 1,2,3,4

FIGURE 5



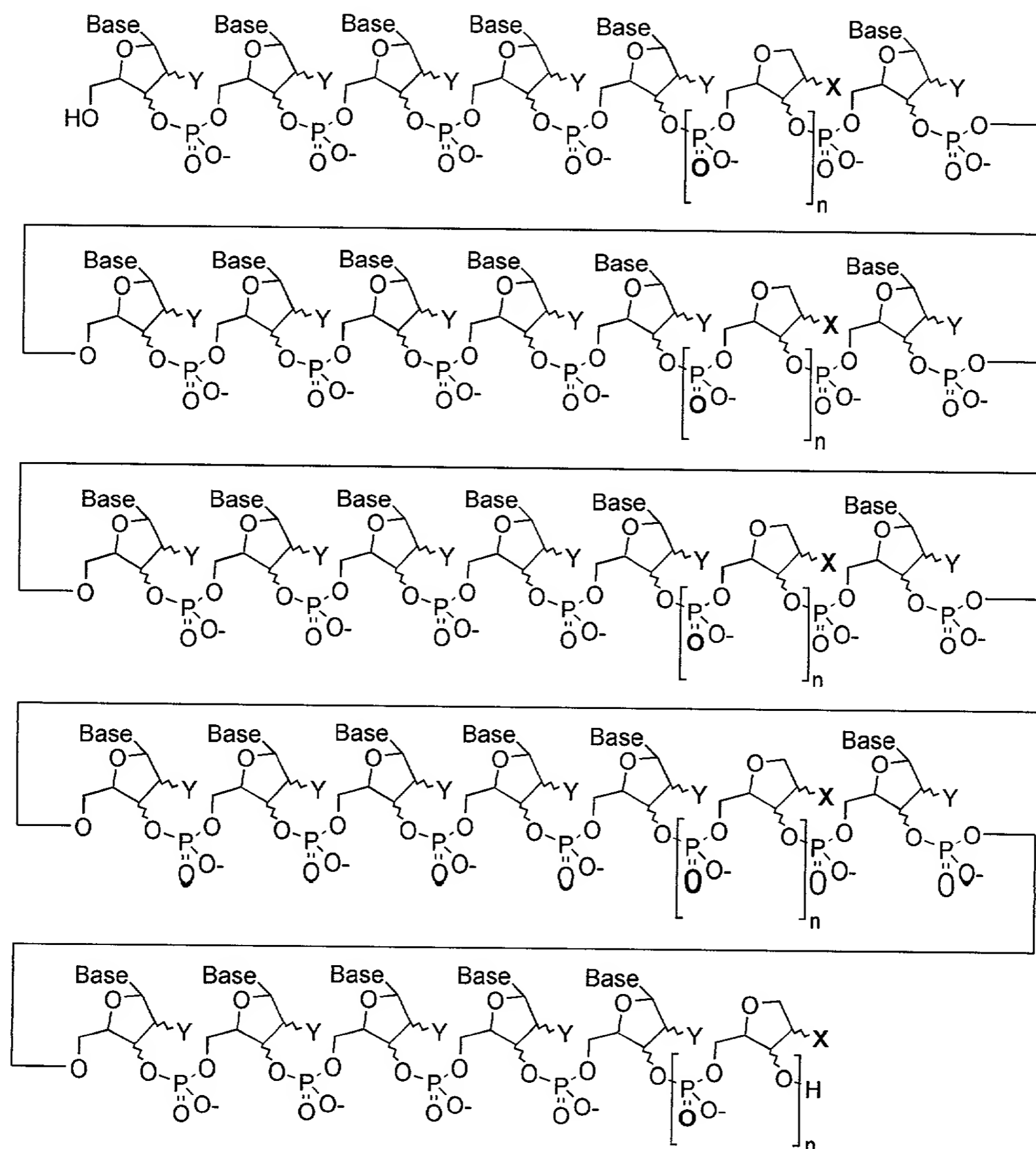
2FaraApO-2FaraApS 5 $X = S$ $Y = \beta\text{-OH}$ $Z = \beta\text{-OH}$ Base = 2-F-Adenine $n = 1,2,3,4$

FIGURE 6



5FdUpO-5FdUpS 6 X = S Y = H Z = H Base = 5-Fluorouracil n = 1,2,3,4

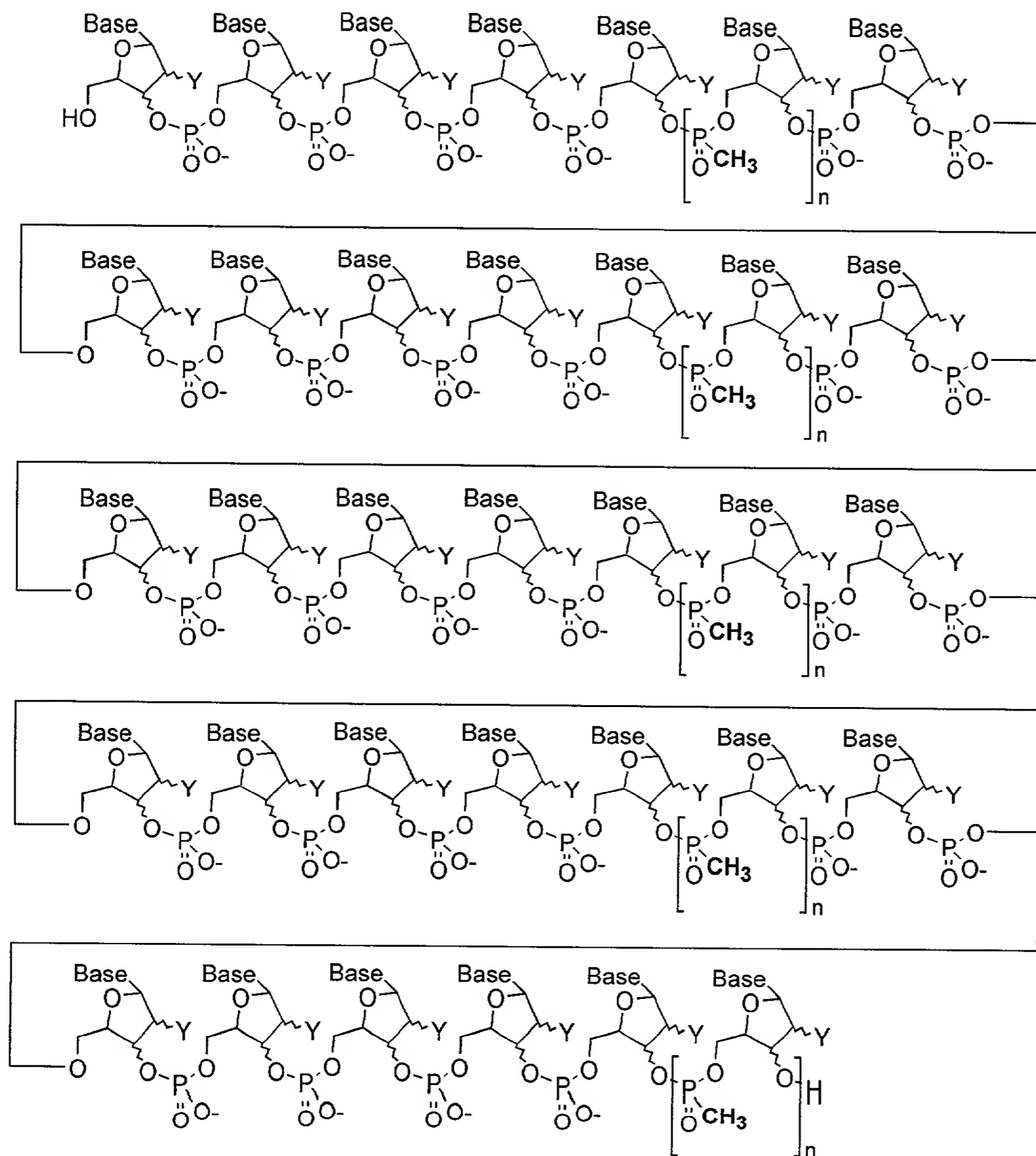
FIGURE 7



- Abasic**
- | | | | | |
|----|------------------|-----------------|----------------------------|-------------|
| 7 | X = α -OR | Y = H | Base = 5-Fluorouracil etc. | n = 1,2,3,4 |
| 8 | X = α -OR | Y = β -OH | Base = Cytosine | n = 1,2,3,4 |
| 9 | X = α -OR | Y = β -OH | Base = 2-F-Adenine | n = 1,2,3,4 |
| 10 | X = α -OR | Y = H | Base = 2-Cl-Adenine | n = 1,2,3,4 |

R = Me, Et, iPr, allyl, alkyls (C_{2-35}) containing one or more O, N, S atom, methoxyethyl, dimethylaminoethyl,

FIGURE 8



Methylphosphonate

- | | | | |
|----|----------|----------------------------|-------------|
| 11 | Y = H | Base = 5-Fluorouracil etc. | n = 1,2,3,4 |
| 12 | Y = β-OH | Base = Cytosine | n = 1,2,3,4 |
| 13 | Y = β-OH | Base = 2-F-Adenine | n = 1,2,3,4 |
| 14 | Y = H | Base = 2-Cl-Adenine | n = 1,2,3,4 |

FIGURE 9

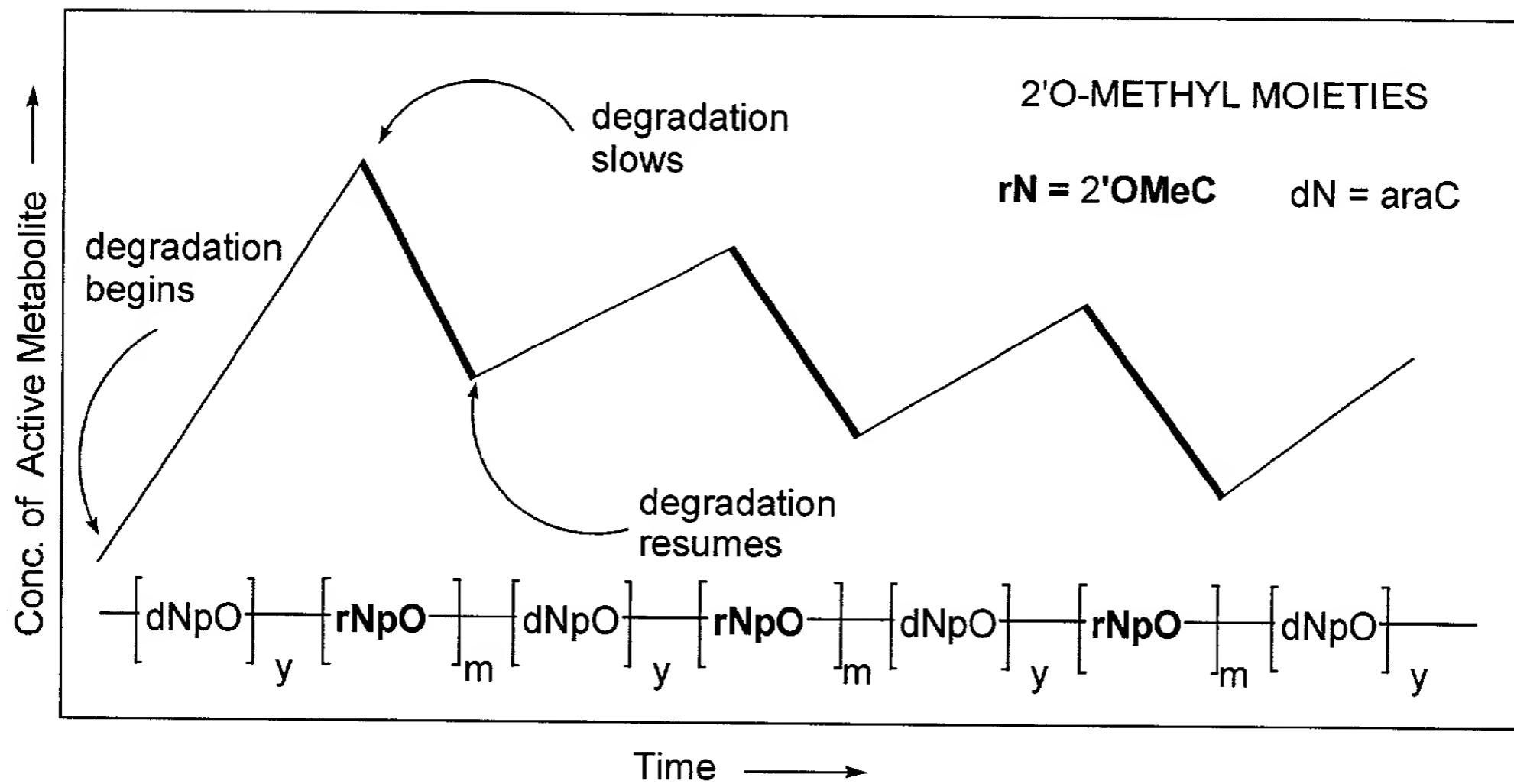
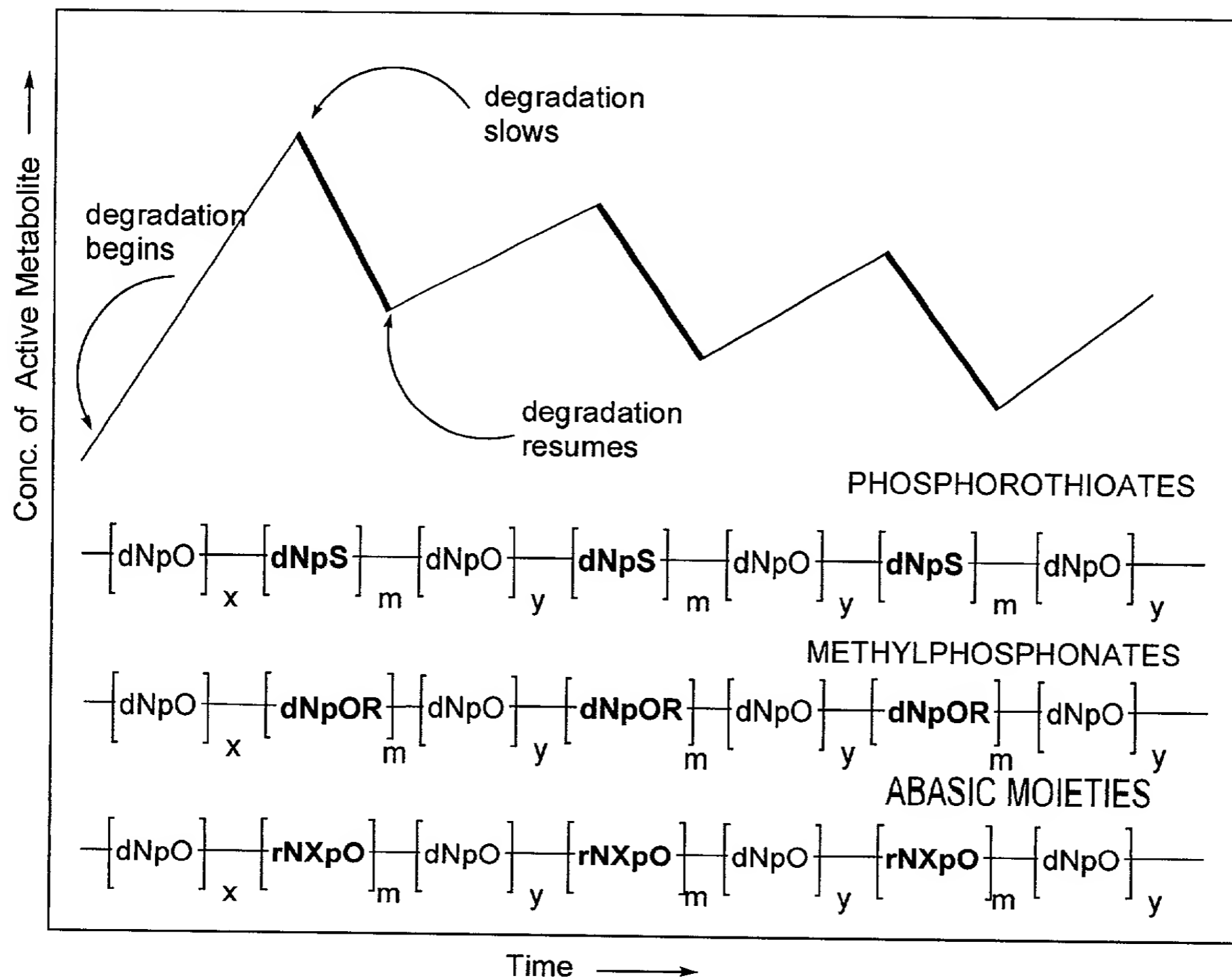
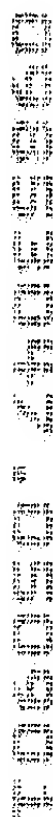


FIGURE 10



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